

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of

Charles J. Upchurch

Serial Number 10/642,874

Filed:

8/18/2003

For: METHOD AND APPARATUS FOR PRODUCING IRON ARTICLE AND PRODUCT

Prior Art Statement

Assistant Commissioner for Patents Washington, D. C. 20231

Dear Sir:

Applicant is aware of the following prior art:

- 1. Moench U.S. Patent 1,165,338 discloses a process of plating cash iron or steel with an aluminum layer by heating the steel to a dull red and heating the aluminum almost to the melting point. The aluminum is then spread onto the steel with a pointed instrument.
- 2. Keating U.S. Patent 3,400,010 discloses a method of applying aluminum to a steel article by heating the steel, melting the aluminum and spraying the melted aluminum onto the steel article and then heating the article to a much higher temperature.

- 3. Kanter U.S. Patent 3,954,512 discloses a method of applying an aluminum layer to steel by heating the steel article and applying a solid aluminum to the article by rubbing.
- 4. Satake U.S. Patent 3,959,030 discloses a method of producing an aluminum coated steel by heating the steel article, spraying an aluminum layer onto the steel and then rolling the composite article to reduce its cross-sectional area.
- 5. De Walt U.S. Patent 4,036,670 discloses a method of making a tool steel by spraying aluminum onto the article, heat treating the article and then grinding off the aluminum layer.
- 6. Shibamori U.S. Patent 4,202,709 discloses a method of producing an aluminum layer on a steel article by heating the steel article, dipping it in a bath of liquid aluminum and then rolling the composite article to bond the aluminum to the steel.
- 7. Uchida U.S. Patent 4,546,051 discloses a method of producing an aluminum-silicon layer on a steel article by heating the steel article, dipping it in a bath of aluminum and silicon and then rolled to reduce the cross-sectional area of the article.
- 8. Rallis U.S. Patent 4,655,852 discloses a method of making an aluminized steel article by spraying or dipping and then heated and cooled in a desired manner to produce a steel article having an aluminum-iron alloy on the surface.

9. Izaki U.S. Patent 5,960,835 discloses a method of coating a cast iron pipe with aluminum and manganese by flame spraying the aluminum and manganese onto a rotating pipe.

A copy of each of the above is attached.

Respectfully submitted,

G. Turner Moller Registration 22,978

GTM:pot
711 N. Carancahua, Suite 720
Corpus Christi, Texas
361/883-7257
August 1, 2003

PTO/SB/08A (04-03)

Approved for use through 04/30/2003. OMB 0651-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known				
Application Number	10/642 874			
Filing Date	8-18-2003			
First Named Inventor	CHARLES J. UPCHURCH			
Art Unit	1722			
Examiner Name				
Attorney Docket Number				

			U. S. PATENT		
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (F known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Cofumns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 1/65 338	12-21-1915	MOENCH	
		US- 3400 010	9-3-1968		
		US 3954 512	5-4-1976	KANTER	
		US 3 959 030	5-25-1976	SATAKE	
		us 4036 670	7-19-1977	DEWALT	
		US- 4202 709		SHIBAMORI	
		US- 4546 051	10-8-1985	VCHIDA	
	L	US- 4655 852	4-7-1987	RALLIS	
		US- 5960 835	10-5-1999	IZAKI	
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 FOREIGN PATENT DOCUMENTS						
Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	Π	
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Examiner		Date	
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